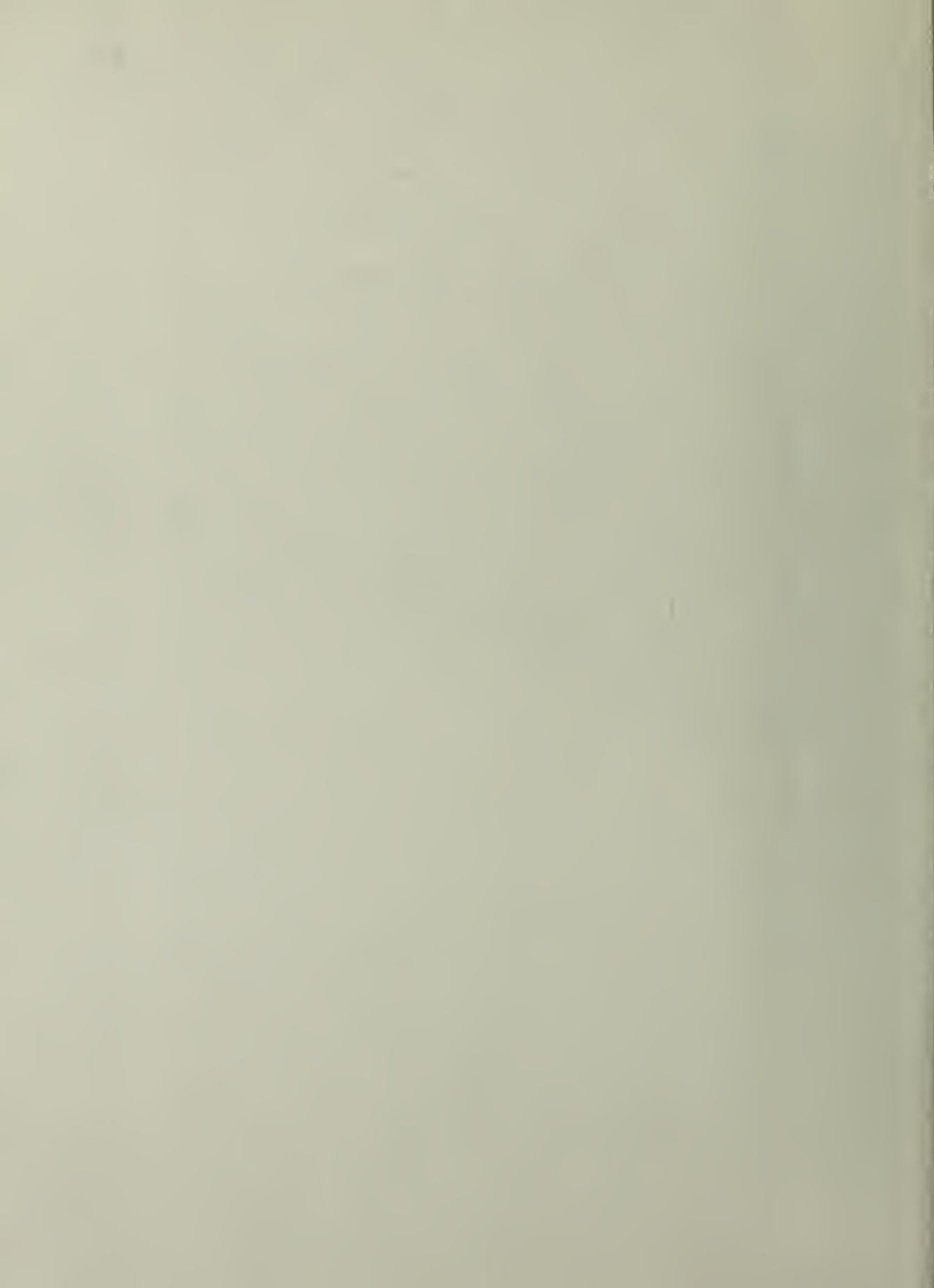


1. ~~Dr. Didsbury~~ C.407
2. ~~Mr. Morley Parry~~ A.49421
3. ~~Mr. Perry~~ A.405

R114

URBAN DISTRICT
OF
GAZEL GROVE AND BRAMHALL

ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH
AND THE
CHIEF PUBLIC HEALTH INSPECTOR
1966



Hazel Grove & Bramhall



Urban District Council.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

AND THE

CHIEF PUBLIC HEALTH INSPECTOR

1966

HEALTH, HOUSING AND PLANNING COMMITTEE

Councillor	E.F. Barker
"	A.J. Caig
"	H.S. Clune, J.P. (Chairman of the Council)
"	B.O. Collins
"	C.W. Harrison
"	E. Peace (Vice-Chairman)
"	R.L. Peuleve
"	Mrs. A. Phillipson, J.P.
"	K. Starkie (Chairman)
"	R.H. Vincent
"	H. Worthington

OFFICERS OF THE HEALTH DEPARTMENT

Medical Officer of Health	T.W. Brindle, M.B., Ch.B., D.P.H.
Chief Public Health Inspector	G.W. Tiplady, M.A.P.H.I.
Additional Public Health Inspectors:	B. Hamer, M.A.P.H.I. M.J. Green, M.A.P.H.I. M. Kippax, M.A.P.H.I.
Pupil Public Health Inspector	A. Bates

STANDARD GRADE READING TEST

Grade	Age	Score
First	6	100
Second	7	100
Third	8	100
Fourth	9	100
Fifth	10	100
Sixth	11	100
Seventh	12	100
Eighth	13	100
Ninth	14	100
Tenth	15	100
Eleventh	16	100
Twelfth	17	100

STANDARD GRADE READING TEST

First	6	100
Second	7	100
Third	8	100
Fourth	9	100
Fifth	10	100
Sixth	11	100
Seventh	12	100
Eighth	13	100
Ninth	14	100
Tenth	15	100
Eleventh	16	100
Twelfth	17	100

SOCIAL CONDITIONS OF THE AREA

Area of Urban District	5,990 acres
Estimated Population, Mid 1966 (per Registrar General)	34,050
Census Population, 1961	29,917
Census Population, 1951	19,674
Census Population, 1931	13,300
Number of Inhabited Houses on Rate Books at 31st March, 1967	12,086
Number of Houses entered on Rate Books during year ended 31st March, 1967	423
Rateable Value of Urban District at 31st March, 1967	£1,765,525



Tel: STEpping Hill 3842

253 London Road,
Hazel Grove,
Stockport.

5th December, 1967

The Chairman and Members of the
Hazel Grove and Bramhall Urban District Council

Mr. Chairman, Ladies and Gentlemen,

Annual Report for 1966

I have the honour to present my Annual Report for the year ending 31st December, 1966.

The estimated population at mid-year 1966 was 34,050, an increase of 590 over the estimated mid-year population in 1965. There were 667 live-births, 32 more than in 1965. There were 7 still-births compared with 9 in 1965 and the still-birth rate was 10.39 per thousand live and still-births, the corresponding rate for England and Wales was 17.7.

There were 310 deaths from all causes at all ages, 23 fewer than in 1965. The corrected death rate was 10.83 per thousand population which compares favourably with the corresponding rate of 11.7 for England and Wales. There were 12 deaths of infants under one year of age and the infantile mortality rate was 17.99 per thousand live births, which is lower than the corresponding rate of 19.0 for England and Wales.

There were 286 cases of measles notified during the year. Notifications of this illness have been fairly constant during each of the past three years, but in spite of this the accepted epidemiological pattern of epidemics every two years can be seen. There was an outbreak towards the end of 1964 which continued into the early months of 1965 and which reached a peak in January of the latter year. Another outbreak occurred towards the end of 1966 with a peak in December. This outbreak continued into the early months of 1967. Otherwise the incidence of infectious illness was the lowest ever recorded in the district. There was one new case of pulmonary tuberculosis notified compared with 3 in 1965 and 4 in 1964. There were 2 new cases of non-pulmonary tuberculosis notified in 1966 compared with 2 in 1965 and 2 in 1964.

During the year the Hazel Grove No. 2 Smoke Control Order covering 249 acres and 1,278 properties was confirmed by the Ministry of Housing



THE UNIVERSITY OF CHICAGO

1911-1912

1911-1912

1911-1912

1911-1912

1911-1912

1911-1912

1911-1912

and Local Government. This Order became operative on 1st October, 1967. Confirmation has also been received of the Hazel Grove No. 3 Smoke Control Order which covers 453 acres and 1,722 properties. This Order will take effect on 1st November, 1968. By this date approximately $\frac{1}{3}$ of the total properties in the urban district will be covered by Smoke Control Orders.

Details of the work carried out by members of the Staff of the Health Department are given in the appropriate section of the report.

In conclusion, it is a great pleasure to express my gratitude to the Chairman and Members of the Health Committee for their continued support and confidence. I should like to thank Mr. Tiplady, Chief Public Health Inspector, for his help and loyalty. I am indebted to the staff of the Health Department for their hard work throughout the year and to colleagues in other Departments for their willing co-operation at all times.

I am, Mr. Chairman, Ladies and Gentlemen,

Yours faithfully,

A handwritten signature in dark ink, appearing to read 'J. W. Brindle', written in a cursive style.

Medical Officer of Health.

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SECTION "A"

VITAL STATISTICS

THE
MUSEUM

VITAL STATISTICS

(a) General:

Live Births:

Number 667
Rate per 1,000 population 19.59
Illegitimate Live Births (per cent of total live births) 3.00%

Stillbirths:

Number 7
Rate per 1,000 total live and still births 10.39
Total Live and Stillbirths 674
Infant deaths (deaths under 1 year)..... 12

Infant Mortality Rates:

Total infant deaths per 1,000 total live births 17.99
Legitimate " " " legitimate live births ... 18.55
Illegitimate " " " illegitimate live births.. -

Neo-natal Mortality Rate (deaths under
4 weeks per 1,000 total live births) 11.99

Early Neo-natal Mortality Rate (deaths under
one week per 1,000 total live births) 11.99

Perinatal Mortality Rate (stillbirths and
deaths under one week combined per
1,000 total live and stillbirths) 22.25

Maternal Mortality (including abortion)
Number of deaths -
Rate per 1,000 total live and stillbirths -

(b) Births, 1957 - 1966

Year	Population (estimated at Mid-Year)	LIVE BIRTHS			STILL-BIRTHS					
		Total	Legit	Illegit.	Live Birth Rate per 1,000 pop.	Total	Legit	Illegit	Still Birth Rate per 1,000 pop.	Still Birth Rate per 1,000 live & still births
1957	23,390	363	353	10	15.52	5	5	-	0.21	13.59
1958	24,730	463	457	6	18.72	9	9	-	0.36	19.07
1959	26,250	471	459	12	17.94	7	7	-	0.27	14.64
1960	28,520	559	553	6	19.60	9	9	-	0.32	15.84
1961	30,090	533	518	15	17.71	5	4	1	0.17	9.29
1962	30,800	532	524	8	17.27	5	5	-	0.16	9.31
1963	31,510	551	539	12	17.49	7	7	-	0.22	12.54
1964	32,310	637	621	16	19.72	3	3	-	0.09	4.69
1965	33,460	635	614	21 *	18.98	9	7	2	0.27	13.98
1966	34,050	667	647	20 *	19.59	7	7	-	0.21	10.39

ENGLAND AND WALES

Comparability Factor - Births 0.99

Hazel Grove and Bramhall - Corrected

Live Birth Rate

1966 - 19.39 per 1,000 population

* Illegitimate live births as a % of total
live births 1966 = 3.00 1965 = 3.31

Live birth rate 1966 - 17.7 per 1,000 population
Live birth rate 1965 - 18.0 per 1,000 population
Still birth rate 1966 - 15.4 per 1,000 total live
and still births

Still birth rate 1965 - 15.7 per 1,000 total live
and still births

(c) Deaths 1957 - 1966

Year	Population (estimated at Mid-Year)	ALL CAUSES		PUERPERAL			INFANTS UNDER ONE YEAR			
		Total	Rate per 1,000 pop.	Sepsis	Other	Rate per 1,000 Total Live & Still births	Total	Legit.	Illegit.	Rate per 1,000 Total Live Birth
1957	23,390	267	11.42	-	-	-	7	5	2	19.28
1958	24,730	282	11.40	-	-	-	10	10	-	21.60
1959	26,250	273	10.40	-	-	-	11	10	1	23.35
1960	28,520	281	9.85	-	-	-	6	6	-	10.73
1961	30,090	293	9.74	-	-	-	10	9	1	18.76
1962	30,800	301	9.77	-	1	1.86	9	9	-	16.92
1963	31,510	340	10.79	-	-	-	9	9	-	16.33
1964	32,310	312	9.66	-	-	-	8	7	1	12.56
1965	33,460	333	9.95	-	-	-	14	13	1	22.05
1966	34,050	310	9.10	-	-	-	12	12	-	17.99

ENGLAND AND WALES

Death Rate:

1966 - 11.7 per 1,000 population
1965 - 11.5 per 1,000 population

Infant Mortality Rate:

1966 - 19.0 per 1,000 live births
1965 - 19.0 per 1,000 live births

Comparability factor: Deaths - 1.19
Hazel Grove and Bramhall
Corrected Death Rate, 1966 - 10.83 per 1,000 population

(d) Classification of Deaths, 1963 to 1966

No.	CAUSE	1963			1964			1965			1966		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
1	Tuberculosis, respiratory	1	-	1	-	-	-	-	-	-	-	-	-
2	" other	-	-	-	-	-	-	-	-	-	-	-	-
3	Syphylitic Disease	-	-	-	1	1	2	-	-	-	-	-	-
4	Diphtheria	-	-	-	-	-	-	-	-	-	-	-	-
5	Whooping Cough	-	-	-	-	-	-	-	-	-	-	-	-
6	Meningococcal infections	-	-	-	-	-	-	-	-	-	-	-	-
7	Acute Poliomyelitis	-	-	-	-	-	-	-	-	-	-	-	-
8	Measles	-	-	-	-	-	-	-	-	-	1	-	1
9	Other Infective & Parasitic Diseases..	-	-	-	-	1	1	-	-	-	1	-	1
10	Malignant Neoplasms, stomach	5	1	6	5	4	9	2	4	6	5	-	5
11	" lung, bronchus..	8	1	9	9	2	11	8	4	12	10	1	11
12	" breast.....	-	8	8	-	5	5	-	4	4	-	4	4
13	" uterus	-	2	2	-	3	3	-	3	3	-	3	3
14	Other Malignant & Lymphatic Neoplasms	18	15	33	10	18	28	17	16	33	17	14	31
15	Leukaemia, Aleukaemia	-	-	-	-	2	2	-	1	1	-	-	-
16	Diabetes	1	1	2	1	2	3	1	-	1	1	3	4
17	Vascular Lesions of Nervous System ..	19	36	55	20	35	55	22	33	55	23	31	54
18	Coronary Disease, Angina	39	27	66	44	23	67	52	23	75	40	39	79
19	Hypertension with Heart Disease	2	1	3	2	1	3	1	3	4	-	1	1
20	Other Heart Disease	17	29	46	10	21	31	14	18	32	13	8	21
21	Other Circulatory Disease	7	14	21	11	14	25	6	10	16	10	10	20
22	Influenza	1	-	1	-	-	-	-	-	-	-	1	1
23	Pneumonia	9	6	15	5	5	10	6	5	11	1	10	11
24	Bronchitis	8	4	12	10	8	18	7	7	14	15	3	18
25	Other Diseases of Respiratory System	1	1	2	4	1	5	3	2	5	1	-	1
26	Ulcer of Stomach and Duodenum	-	-	-	-	-	-	1	1	2	3	-	3
27	Gastritis, Enteritis and Diarrhoea ..	-	-	-	-	-	-	-	-	-	-	-	-
28	Nephritis and Nephrosis	1	-	1	1	-	1	-	-	-	-	-	-
29	Hyperplasia of Prostate	2	-	2	-	-	-	4	-	4	1	-	1
30	Pregnancy, Abortion, Childbirth	-	-	-	-	-	-	-	-	-	-	-	-
31	Congenital Malformations	-	6	6	-	-	-	3	3	6	5	-	5
32	Other Defined & Ill-defined Diseases	14	23	37	11	10	21	16	18	34	12	8	20
33	Motor Vehicle Accidents	2	2	4	4	1	5	4	-	4	6	1	7
34	All other accidents	3	2	5	3	2	5	2	6	8	-	4	4
35	Suicide	2	1	3	2	-	2	1	1	2	-	3	3
36	Homicide and Operations of War	-	-	-	-	-	-	1	-	-	-	2	2
TOTALS		160	180	340	153	159	312	170	163	333	164	146	310

(e) Analysis of Age Periods of Deaths, 1966

AGE PERIOD	MALES	FEMALES	TOTAL
Under 1 year	7	5	12
1 to 4 years	2	1	3
5 to 14 years	1	-	1
15 to 24 years	2	-	2
25 to 34 years	-	-	-
35 to 44 years	3	1	4
45 to 54 years	16	9	25
55 to 64 years	29	18	47
65 to 74 years	52	32	84
75 years and over.....	52	80	132
TOTALS	164	146	310



SECTION ' B '

GENERAL PROVISION OF

HEALTH SERVICES IN THE AREA

CONTENTS

THE ANTHROPOLOGY OF
THE FUTURE

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

Laboratory facilities are available at the Public Health Laboratory at Withington Hospital.

The following services are provided by the Local Health Authority (Cheshire County Council) and administered by the North East Cheshire Divisional Health Committee:

Ambulance facilities: A 24-hour Ambulance Service is available, being provided by Stockport Corporation on an agency basis. In addition, sitting case ambulances are available.

Nursing in the Home: There are in the area seven District Nurses who undertake general nursing and in some cases maternity work, and three County midwives.

Health Visitors: There are five Health Visitors who work in the area.

Home Help Services: Home Helps have assisted during the year in the following cases in the Hazel Grove and Bramhall Urban District:-

Confinement	73
Chronic Sick, including Aged and Infirm	80
Miscellaneous Sickness	34
Mental Illness	<u>2</u>
Total:	189

Infant Welfare Centres: Sessions are held weekly at the Clinic, 253 London Road, Hazel Grove and at the Methodist Sunday School, Bramhall and fortnightly at the Brookdale Social Club, Bridge Lane, Bramhall. Attendances during the year were as follows:-

Centre	New cases 0 - 1 year	Total attendances		
		0 - 1	1 - 2 years	2 - 5 years
Hazel Grove	375	3797	665	366
Bramhall	206	2181	468	89
Bridge Lane	99	711	108	13

Ante-Natal Clinic: A clinic session is held at the Clinic, 253 London Road, Hazel Grove, weekly and attendances during the year are given below:-

New cases	167
Total attendances	933

School Clinic: Held monthly at the Clinic, 253 London Road, Hazel Grove

Dental Clinic: A Dental Surgeon attends at the Clinic, 253 London Road, Hazel Grove.

Specialist Clinics: The following Specialist Clinics are held at regular intervals at the Clinic, 253 London Road, Hazel Grove.

Ear, Nose and Throat Clinic
Eye Clinic
Speech Therapy Clinic
Child Guidance Clinic
Old People's Preventive Clinic
Geriatric Clinic
Family Planning Clinic
Cytology Clinic

Diphtheria, Whooping Cough and Poliomyelitis Immunisation: A special clinic is held for this purpose once a month at the Clinic, 253 London Road, Hazel Grove, and arrangements are made for immunisation to be performed at the end of every Welfare Session at Bramhall. In addition, immunisation is carried out free of charge by general medical practitioners at their surgeries. An annual visit is made to all primary schools in the district for the purpose of giving diphtheria and poliomyelitis reinforcing doses.

Chiropody Service: Financial help in obtaining chiropody treatment is given to persons aged 65 years and over, persons registered as physically handicapped and expectant mothers, on the recommendation of their family doctor. Treatment is given by the chiropodist chosen by the patient.

Physically Handicapped Club: A social club for handicapped persons meets in alternate weeks at Hazel Grove. Transport is provided in most cases by members of the W.R.V.S. In addition, a handicraft section meets once fortnightly.

Welfare Foods: Welfare foods are on sale at the Divisional Health Office, 253 London Road, Hazel Grove, from Monday to Friday, and at all Child Welfare Centres.

Services provided by the Manchester Regional Hospital Board

Hospitals: There is no hospital within the Urban District. Patients from this area are admitted to hospitals in neighbouring districts.

Maternity cases requiring hospital accommodation are also admitted to hospitals outside the area. Where necessary, infectious disease cases other than Smallpox are admitted to the Stockport Isolation Hospital and Monsall Isolation Hospital. Facilities for Smallpox cases are provided at Ainsworth Smallpox Hospital near Bury.

Tuberculosis and Venereal Diseases: Special clinics for the diagnosis and treatment of Tuberculosis and Venereal Diseases are held at the Chest Clinic, Stepping Hill Hospital and St. Thomas' Hospital, Flint Street, Stockport, respectively.

SECTION 'C'

PREVALENCE OF AND CONTROL OVER

INFECTIOUS DISEASES

(a) General

The following Table shows the number of Infectious Disease cases notified during the past ten years, after correction of diagnosis.

Disease	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Scarlet Fever	13	13	25	8	4	7	2	2	8	3
Whooping Cough	9	3	6	15	-	-	3	6	-	-
Acute Poliomyelitis	-	1	-	-	-	-	-	-	-	-
Measles	268	177	308	62	549	62	637	313	313	281
Diphtheria	-	-	-	-	-	-	-	-	-	-
Dysentery	34	1	2	25	-	-	-	-	1	-
Meningococcal Infections	-	1	2	1	-	-	-	-	-	-
Acute Pneumonia	1	3	6	-	2	-	4	-	-	2
Smallpox	-	-	-	-	-	-	-	-	-	-
Acute Encephalitis	-	-	-	-	-	-	-	-	-	-
Enteric or Typhoid Fever	-	-	-	-	-	-	-	-	-	-
Paratyphoid Fevers	-	-	1	-	-	-	-	-	-	-
Erysipelas	-	-	-	-	-	-	1	-	2	-
Food Poisoning	47	-	-	-	-	1	-	1	-	-
Ophthalmia Neonatorum	-	-	-	-	-	-	-	-	-	-
Gastro-enteritis	-	-	1	-	-	-	-	-	-	-
Puerperal Pyrexia	-	1	-	1	1	-	-	2	-	-
TOTALS	372	200	351	112	556	70	647	324	324	286

(b) Analysis of Age Periods, Infectious Diseases, 1966

Disease	0-1	1-2	3-4	5-9	10-14	15-24	25-44	45-64	65 & Over	Total	Rate per 1,000 pop.
Scarlet Fever	-	1	-	2	-	-	-	-	-	3	0.088
Whooping Cough	-	-	-	-	-	-	-	-	-	-	-
Acute Paralytic Poliomyelitis	-	-	-	-	-	-	-	-	-	-	-
Measles	1	64	111	101	3	1	-	-	-	281	8.15
Dysentery	-	-	-	-	-	-	-	-	-	-	-
Meningococcal Infections	-	-	-	-	-	-	-	-	-	-	-
Acute Pneumonia	-	-	-	-	-	-	-	2	-	2	0.059
Smallpox	-	-	-	-	-	-	-	-	-	-	-
Acute Encephalitis	-	-	-	-	-	-	-	-	-	-	-
Enteric or Typhoid Fever	-	-	-	-	-	-	-	-	-	-	-
Paratyphoid Fevers	-	-	-	-	-	-	-	-	-	-	-
Erysipelae	-	-	-	-	-	-	-	-	-	-	-
Food Poisoning	-	-	-	-	-	-	-	-	-	-	-
Ophthalmia Neonatorum	-	-	-	-	-	-	-	-	-	-	-
Gastro-enteritis	-	-	-	-	-	-	-	-	-	-	-
Puerperal Pyrexia	-	-	-	-	-	-	-	-	-	-	-
Diphtheria	-	-	-	-	-	-	-	-	-	-	-
TOTALS	1	65	111	103	3	1	-	2	-	286	-

(c) Tuberculosis

(i) Cases on Register:

Cases on Register at 31/12/65
Cases notified in 1966
Cases added to Register
other than by formal
notification

Cases removed from
Register in 1966

Cases remaining on Register
at 31/12/66

(ii) Cases removed from
Register:

Recovered
Died
Left District
Wrong Diagnosis

Totals

Males		Females		Total
Pulmonary	Non. Pulmonary	Pulmonary	Non. Pulmonary	
53	10	49	13	125
1	1	-	1	3
-	-	1	-	1
54	11	50	14	129
13	1	9	-	23
41	10	41	14	106
Males		Females		Total
Pulmonary	Non. Pulmonary	Pulmonary	Non. Pulmonary	
8	1	5	-	14
2	-	-	-	2
2	-	4	-	6
1	-	-	-	1
13	1	9	-	23

(d) Diphtheria Immunisation:

There have been no cases of Diphtheria since 1948.

The number of children who completed a full course of primary immunisation against Diphtheria during 1966 is as follows:-

Under 5 years	687
5 to 14 years	25
Total:	712

During the year, 1142 children under the age of 15 years received reinforcing injections.

(e) Smallpox Vaccination:

Vaccination against smallpox carried out during 1966 is as follows:-

Under 1 year	9
Under 5 years	333
5 to 14 years	37
Over 14 years	16
	395

Revaccination:

Under 1 year	-
Under 5 years	-
5 to 14 years	30
Over 14 years	<u>165</u>
	195

(f) Poliomyelitis Vaccination:

Vaccination against Poliomyelitis carried out during 1966 is as follows:-

Salk Vaccine:

2 injections	3
3 injections	4
4 injections	<u>10</u>
	17

Oral Vaccine:

1st dose	1075
2nd dose	985
3rd dose	875
4th dose	<u>311</u>
	3246

SECTION 'D'

GENERAL SANITARY CIRCUMSTANCES

GENERAL SANITARY CIRCUMSTANCES

(i) Details of Inspections

GENERAL SANITATION:	Accumulations and refuse disposal	231
	Drainage	891
	Keeping of animals	49
	Moveable dwellings	17
	Structural defects	161
	Verminous, dirty premises	44
	Watercourses	130
	Water supply	36
	Rodent control.....	336
	Insects.....	119
	Miscellaneous	266
	Interviews	174
HOUSING	Council House inspections	1414
	Council House applications	328
	Standard and improvement grants	235
	Housing and Rent Acts	64
	Old aged persons	256
	Miscellaneous.....	193
	Interviews	44
INFECTIOUS DISEASES	Investigations	52
	Smallpox and other contacts	41
	Food poisoning	39
SPECIAL PREMISES		
FOOD	Bacon factory	568
	Slaughterhouses	274
	Bakehouses	36
	Butchers	291
	Cafes	57
	Canteens - factory	41
	Canteens - school	14
	Clubs.....	4
	Confectioners	81
	Dairies	33
	Fried fish shops	14
	Greengrocers.....	102
	Grocers	175
	Ice Cream	117
	Licensed premises	46
	Mobile shops, etc.	30
	Wet fish shops	35
MISCELLANEOUS	Animal boarding establishments	1
	Pet shops	14
	Farms	116

Cont.....

MISCELLANEOUS

(Contd.)

Factories (power).....	69
Factories (non-power)	11
Building Sites	82
Outworkers	25
Offices, Shops, etc. Act.	418
Clean Air Act	1808
Smoke observations	106
Boilerhouse inspections	17
Public Halls	69
Schools	54
Swimming baths	21
Hairdressers	36
Noise Nuisance	1

SAMPLING

Water Supply	11
Milk	12
Swimming baths	18
Ice Cream	66
Miscellaneous	44
Laboratory Visits	32

10,069

(ii) Water Supply

The whole of the Urban District is served directly from the public water mains of the Stockport and District Water Board.

The water, which is chemically treated to prevent plumbo-solvent action, is stored in impounding reservoirs, treated by mechanical filtration plant and subsequently chlorinated. It has been satisfactory in quality and quantity.

Bacteriological examinations were made monthly of the raw water and weekly of the treated water going into supply, the results were satisfactory. Chemical analyses were made monthly of the raw water and treated water going into supply, again with satisfactory results.

Bacteriological examination and chemical analysis of a typical sample taken during the year showed the following results:-

Source: Goyt Valley Treatment Works
Main Supply - Filtered Water

Date taken - 13.6.66

Appearance: Clear and colourless, with a very faint trace of sediment

pH value	...	...	...	...	...	...	...	...	7.35
Colour, p.p.m. platinum	...	...	...	...	...	...	...	...	nil
Turbidity, p.p.m. silica scale	...	...	...	...	...	...	...	...	1.4

ANALYSIS

Parts per million

Free acidity as CO ₂	...	...	...	...	...	...	2
Free alkalinity as CaCO ₃	...	...	...	...	...	...	nil
Total alkalinity as CaCO ₃	...	...	...	...	...	...	16
Hardness as CaCO ₃ - Carbonate hardness	...	...	...	...	...	...	16
Non-carbonate hardness	...	...	...	...	...	...	29
Total hardness	...	...	...	...	...	...	45
Chlorides as Cl ₂	...	...	...	...	...	...	14
Nitrites as N ₂	...	...	...	...	...	...	nil
Nitrates as N ₂	...	...	...	...	...	...	0.62
Ammoniacal nitrogen as N ₂	...	...	...	...	...	...	0.01
Albuminoid nitrogen as N ₂	...	...	...	...	...	...	0.003
Oxygen absorbed test. 4 hours at 27°C	...	...	...	...	...	...	0.76
Silica as SiO ₂	...	...	...	...	...	...	8
Iron as Fe	...	...	...	...	...	...	0.02
Manganese as Mn	...	...	...	...	...	...	0.01
Aluminium as Al	...	...	...	...	...	...	0.04
Fluorides as F	...	...	...	...	...	...	0.06
Other tests:-	...	...	...	...	...	...

BACTERIOLOGICAL EXAMINATION

Probable number of coli-aerogenes per 100 mls of water 0

Electrical Conductivity	...	...	...	...	...	221 Micro-mhos
Equivalent to Soluble Solids	...	...	...	...	...	93 p.p.m.

MI iii) Swimming Baths

The District has one privately owned Swimming Bath, situated in Bramhall, comprising an Outdoor Pool and an Indoor Pool, both of which are open to the public and are used by Schools during the season.

The water used is from the public supply and purification is by continuous filtration and chlorination. The efficiency of this treatment was checked by tests carried out at frequent intervals. Bacteriological samples were also taken at regular intervals and submitted to the Public Health Laboratory for examination - all samples were found to be satisfactory.

iv) Moveable Dwellings

SA There are no licensed caravan sites in the Urban District, and no action has been necessary under this heading during the year.

v) Pet Animals Act, 1951

The occupiers of two premises in the Urban District are licensed to use such premises as Pet Shops.

vi) Rodent Control

Inspections and treatments have been carried out at all types of premises (domestic, industrial, commercial and agricultural) and at the Council's refuse tip, Sewage Works and depots. with good results.

(i) The following table gives details of the work carried out during the year ended 31st December, 1966.

na	<u>Properties other than sewers</u>	<u>Type of Property</u>	
		<u>Non-Agricultural</u>	<u>Agricultural</u>
is	No. of properties in District	13,056	47
su	Total number of properties (including nearby premises) inspected following notification.	305	17
of	Number infested by rats	248	16
th	Number infested by mice	22	-
in	Total number of properties inspected for rats and/or mice for reasons other than notification.	-	-
ta	Number infested by rats	-	-
	Number infested by mice	-	-

vii) Smoke Control

The Hazel Grove (No. 2) Smoke Control Order 1966 was submitted for confirmation to the Minister of Housing and Local Government. The Order covers 249 acres containing 1,252 dwelling houses and 26 industrial and commercial premises.

Supervision of the Hazel Grove (No. 1) Smoke Control area has continued.

Industrial Plant

One application for the prior approval of new boiler installation was considered and approved. Advice was given on suitable chimney heights in several other installations.

106 routine observations of industrial chimneys were made and visits made to boiler plants.

viii) Bye-laws and Regulations

The following Bye-Laws and Regulations relating to Public Health are in operation in the Urban District:-

- Common Lodging Houses
- Offensive Trades
- Slaughterhouses
- Cleansing of Footways and Pavements and With Respect to Nuisances
- Removal of House Refuse
- Tents, Vans and Sheds and Similar Structures
- Street Trading by Young Persons ++
- Employment of Young Children ++
- Smoke Abatement
- Deposit of Litter and Dangerous Substances
- Buildings
- New Streets
- Handling, Wrapping and Delivery of Food, and Sale of Food in Open Air
- Hairdressers and Barbers
- Building Byelaws with respect to Smoke Prevention
- Fouling of footways by Dogs++

++Made by Cheshire County Council and operative in the Urban District

ix) Sewerage and Sewage Disposal

Because of the continued rapid housing development and increase in the population which has taken place during recent years it has become necessary to prepare capital schemes to enlarge the capacity of the sewers in parts of the district.

In the last six months a further two premises, previously draining to septic tanks, have been connected to the sewers; there are now only 33 premises in the Urban District with water closets not connected to a sewer and 23 premises in outlying parts that have pail closets.

The Ministry of Housing and Local Government have approved in principle the extensions to the Sewage Disposal Works and detailed design work is now well advanced and it is hoped to start work in mid-1968.

x) Animal Boarding Establishments Act, 1963

One establishment in the Urban District is registered under the above Act.

SECTION 'E'

HOUSING



HOUSING

The following Table gives particulars of post-war building progress in the Urban District.

Year ending 31st March	Number of houses erected		
	Private Enterprise	Local Authority	Total
1946	5	-	5
1947	94	-	94
1948	18	61	79
1949	-	85	85
1950	13	38	51
1951	4	-	4
1952	22	30	52
1953	23	98	121
1954	75	66	141
1955	302	-	302
1956	419	28	447
1957	474	12	486
1958	530	24	554
1959	500	336	836
1960	466	14	480
1961	248	22	270
1962	233	36	269
1963	414	-	414
1964	534	-	534
1965	579	-	579
1966	325	47	372
1967	415	77	492
Totals	5,693	974	6,667

Number of new houses in progress at 31st December, 1966 :-

(i) Private development	272
(ii) Council houses	20

The following are details of the work carried out during the year under the Public Health Acts and Housing Acts :

Inspection of dwellinghouses:

Number of inspections for housing defects under Public Health Acts and Housing Acts

Remedy of defects without service of formal notice:

Number of houses rendered fit including houses in respect
of which informal notices were served prior to 1966 2

Action under Statutory Powers:

(i) Proceedings under Section 9, Housing Act, 1957:

(a) Number of houses in respect of which notices were
served requiring repairs -

(b) Number of houses rendered fit after service of formal
notices -

(ii) Proceedings under Section 16, Housing Act, 1957:

(a) Number of houses in respect of which Clearance,
Demolition or Closing Orders were made -

(b) Number of houses demolished or closed -

(iii) Proceedings under Public Health Act, 1936:

(a) Number of houses in respect of which notices were
served requiring defects to be remedied -

(b) Number of houses in respect of which defects were
remedied after service of formal notices, including
notices served prior to 1966 -

Standard Grants:

16 applications were received during the year, all of which
were approved.

SECTION 'F'

INSPECTION AND SUPERVISION

OF FOOD

1. The first part of the paper is devoted to the

study of the properties of the function $f(x)$ defined by the equation

$f(x) = \int_0^x f(t) dt$

(1.1)

where $f(x)$ is a continuous function on the interval $[0, 1]$.

2. In the second part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

3. In the third part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

4. In the fourth part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

5. In the fifth part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

6. In the sixth part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

7. In the seventh part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

8. In the eighth part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

9. In the ninth part of the paper we shall consider the

problem of the construction of the function $f(x)$ satisfying the

condition $f(x) = \int_0^x f(t) dt$ and the condition $f(0) = 1$.

INSPECTION AND SUPERVISION OF FOOD

1. Meat Inspection

Details of the work carried out during the year are given in the following Tables.

(a) Carcases and offal inspected and condemned in whole or in part:

	Cattle excluding Cows	Cows	Calves	Sheep and Lambs	Pigs
Number killed	282	21	3	1468	37709
Number inspected	282	21	3	1468	37709
<u>All Diseases except Tuberculosis and Cysticerci</u>					
Whole carcases condemned	1	-	-	-	263
Carcases of which some part or organ was condemned	23	3	-	64	3759
Percentage of number inspected affected with disease other than Tuberculosis & Cysticerci	8.51	14.29	-	4.36	10.66
<u>Tuberculosis only</u>					
Whole carcases condemned	-	-	-	-	-
Carcases of which some part or organ was condemned	-	-	-	-	472
Percentage of number inspected affected with Tuberculosis	-	-	-	-	1.25
<u>Cysticercosis</u>					
Carcases of which some part or organ was condemned	-	-	-	-	-
Carcases submitted to treatment by refrigeration	-	-	-	-	-
Generalised and totally condemned	-	-	-	-	-

(b) Bacon Factory, High Lane

Number of pigs slaughtered and inspected	37,708
Number of carcasses affected with Tuberculosis	472
Percentage of total number slaughtered	1.25%
Number of carcasses wholly condemned for Tuberculosis	-
Percentage of total number slaughtered	-
Number of carcasses wholly condemned for causes other than Tuberculosis	263
Percentage of total number slaughtered	0.70%
Total weight of meat condemned, including condemnations other than whole carcasses	42,280 lbs

Distribution of diseases with respect to carcasses
which were wholly condemned :-

Tuberculosis	-
Multiple Abscesses	62
Moribund	12
Anaemia	2
Pathological Emaciation	30
Died in transit or Lairage	23
Oedema	8
Multiple Tumours	3
Extensive Bruising	6
Septic Peritonitis and Pleurisy	2
Fevered	1
Septic Peritonitis	24
Lymphatic Leukaemia	1
Jaundice	3
Septic Pleurisy	58
Uraemia	1
Septic Pneumonia	6
Septic Nephritis	3
Septic Pericarditis	2
Septic Metritis	3
Septicaemia	12
Septic Mastitis	1
	—
	263
	—

(c) Private Slaughterhouses:

Number of carcasses inspected:

Cattle, excluding cows	282
Cows	21
Calves	3
Sheep and lambs	1468
Pigs	1

Condemnations:

Whole carcasses	1
Heads	1
Lungs	5
Livers	85
Hearts	2
Other parts and/or Organs	1

2. Food Inspection

(a) Food premises in the area:

The following is a list of the food premises in the area:-

Grocers	42
Butchers and cooked meats	23
Slaughterhouses	2
Greengrocers and/or wet fish shops	24
Cafes and restaurants	9
Sweets and/or Ice Cream	23
Fried fish shops	7
Confectioners/Bakehouses	14
Tripe Shop	1
Bacon Factory	1

In addition, there are 17 factory canteens and 16 school canteens.

Food premises, registered under the Food and Drugs Act, are as follows:

Preparation of potted, pressed, pickled or preserved food	42
Preparation of fish by any process of cooking	6
Manufacture and sale of ice cream	1
Storage and sale of ice cream	62

(b) Condemnation of Unsound Food:

In addition to the unsound meat condemned at the bacon factory and private slaughterhouses referred to in 1 (b) and 1 (c) on pages 34 and 35 the following foods were condemned during routine visits and request visits to food premises:-

Fish (frozen)	397 pkts
Meat	476 lbs
Meat (cooked)	361 lbs
Meat (frozen)	255 pkts
Meat paste	40½ lbs
Vegetables	9 tins
Vegetables (frozen)	380 pkts
Fruit (canned)	11 tins
Beverages	1 tin
Frozen eggs	168 lbs
Baby foods	7 tins
Pastries	56 pkts
Soups	2 tins
Biscuits	3 pkts
Flour	12 lbs
Concentrated Orange.	27 tins

All condemned food, other than meat and offals, is disposed of by tipping on the Council's refuse tip. All tins are punctured and jars broken before being buried at a depth of eight feet.

Condemned meat and offals are removed from the slaughterhouses by private contract for ultimate conversion into fertilisers.

(c) Food Poisoning

No cases of food poisoning were reported during the year.

(d) Report on food samples:

I am indebted to the Chief Inspector (W.K. Nattrass, Esq.)
Weights and Measures Department, Cheshire County Council, for the
following report on food and drugs samples obtained in the Urban
District during the year.

Article	Number of samples obtained	Number of samples reported against
Ale. India Pale.	1	
Ale. Pale.	1	
Antacid Digestant Tablets	2	
Apples	1	
Baby food. Fruit & Honey Breakfast	1	
Beetroot. Pickled.	1	
Biscuits. Devonet.	1	
Bisk Slimasoup (Tomato)	1	
Blanc Mange Powder (Lemon flavour)	1	
Blackcurrant Syrup	1	
Boric Acid Ointment B.P.C.	1	
Bread. Slice of. (Complaint)	1	1
Butter. (Complaint)	1	1
Caraway Seeds	1	
Carrots	1	
Cheese. Soft	1	
Cod Liver Oil. Pure.	1	
Coffee. Instant.	1	
Cream. Double.	1	
Diafruits (Sugar free pastilles)	1	1
Eccles Cakes	1	
Flour. Self Raising.	1	
Fresh Cream Buns.	1	
Fresh Fruit Conserve (Strawberry)	1	
Grapefruit	1	
Hamburgers	1	
Iodine. Solution of B.P.	1	1
Jam. Low Sugar.	1	
Kruschen Salts.	1	
Lard.	1	
Lemons	1	
Margarine.	1	
Milk.	98	6
Milk. Evaporated.	2	1
Orange Juice	2	
Orange Squash (Low Calorie)	1	
Panets (with paracetamol)	1	
Phenacetin Tablets	1	
Pineapple Pie Filling	1	
Pork Luncheon Meat (Complaint)	1	1

Article	Number of samples obtained	Number of samples reported against
Potato. Instant. Mashed.	1	
Potted Beef Paste.	1	
Rumba	1	
Sausage. Pork.	2	
Sleep Tablets	1	
Slim Discs.	1	
Strawberry Pie Filling.	1	
Strawberries.	1	
Strawberries in heavy syrup.	1	
Surgical Spirit B.P.C. No. 1.	1	
Sweets: Chocolate Eclairs (Complaint)	1	
" Lucky Bags	1	
" Milk Chocolate Eggs.	1	
T.C.P.	1	
Tea	1	
Tomato Juice	2	
Vinegar	2	
Whisky	1	
Zinc & Castor Oil B.P.	1	
	162	12

The following are details of the non-standard samples:

No.	Sample	Result of Analysis	Remarks
1.	Slice of bread (complaint)	Specimen included a small piece of discoloured matter adhering to and embedded in a piece of crust. The discolouration was due to the presence of iron, probably rust.	Bakers cautioned
2.	Butter (Complaint)	Foreign matter consisted of a cellulose bundle of fibres - woody tissue from a twig or similar vegetation.	Packers cautioned.
3.	Diafruits (Sugar free Pastilles)	Pastilles cont. artificial colour not stated on label as required.	Manufacturers Cautioned.
4.	Solution of Iodine B.P.	Containing an excess of potassium iodide.	Verbally cautioned.
5.	Milk.	Penicillin present (less than 0.05 I.U. per ml.)	Farmer cautioned.
6.	Milk.	Penicillin present - 0.01 I.U./ml.	ditto
7.	"	ditto	ditto
8.	"	ditto	ditto
9.	"	ditto	ditto
10.	Milk (Complaint)	Foreign matter consists of matted mould threads associated with decomposed milk solids.	Fined £10 plus £9.3.Od. costs.
11.	Milk. (Evaporated. (Complaint)	Sample having abnormal flavour - origin of which cannot be traced.	Packers cautioned.
12.	Pork Luncheon Meat (Complaint)	Containing staining on the surface of the meat. Discoloured meat cont. iron compounds to the extent of 150 ppm. expressed as Fe.	Packers cautioned.

In addition to the foregoing samples taken by officers of the Weights and Measures Department, several complaints by private purchasers were investigated, as follows:-

Complainant	Complaint	Remarks
Private purchaser	Slice of bread containing foreign matter.	Bakers cautioned
"	Milk containing matted mould threads associated with decomposed milk solids.	Dairy fined £10 plus £9. 3. Od. costs.
"	Evaporated milk having abnormal flavour - origin of which cannot be traced.	Packers cautioned.
"	Alleged vomiting after eating Chocolate Eclairs (Sweets)	Complaint not substantiated. No Action.
"	Butter containing foreign matter (bundle of cellulose fibres)	Packers cautioned.
"	Pork Luncheon Meat containing staining on the surface. (Con.iron compounds to the extent of 150.ppm)	Importers cautioned.
"	Chocolate Swiss Roll containing patches of mould.	Retailers fined £50 plus £5. 5.0. costs.
"	Large white loaf containing a piece of paper.	Bakers fined £10 plus £5. 5. Od. costs.
"	Alleged foreign body in corned beef.	Insufficient Evidence No action.
"	Foreign matter in bread.	No action
"	Pork pie containing patch of mould	Manufr. cautioned
"	Tiddley wink in school milk.	Insuffieient evidence No action.
"	Breakfast cereals containing toy gift packet which contained a black dead beetle.	Packers cautioned.
"	Tin of grapefruit segments containing bits of wire.	Importers cautioned.
"	School milk - dirt on top of milk	Dairy cautioned

Complainant	Complaint	Remarks
Private purchaser	School milk - what appears to be a bristle.	Dairy cautioned.
"	School milk - bottle cap in milk	ditto
"	Tinned fruit tainted by paint inside can.	Importers cautioned.
"	School milk containing bottle top	Dairy cautioned.
"	Loaf of bread alleged to contain mouse dropping.	Bakers cautioned.
"	Decayed tooth in sliced bread.	Bakers cautioned.
"	Wrapped Hovis loaf containing grey dirt inside wrapper.	ditto.

3. Milk Supply

There are 50 milk distributors and 2 dairies on the Register.

The following Table gives details of the laboratory tests carried out on samples of milk obtained during the year.

Test	Passed	Failed	Total	Negative	Positive	Total
Methylene Blue Test	192	9	201			
Phosphatase Test	102	-	102			
Turbidity Test	36	5	41			
Biological Test (Tuberculosis)				34	-	34
Biological Test (Brucella)				59	3	62
Direct Culture				293	8	301
Ring Test				180	152	332

Brucellosis

During 1966 as a result of regular routine sampling of milk produced or retailed in the Urban District, dealer samples from two producers were found to be infected with brucella. Investigations were immediately carried out and in both cases notices were served prohibiting the sale of untreated milk from the infected animals, which were subsequently slaughtered. In the meantime arrangements were made for milk from these farms to be pasteurised before retail sale.

4. Manufacture and Sale of Ice-Cream

Premises registered for the manufacture and/or storage and sale of ice-cream have received close attention during the year.

The vehicles and equipment of itinerant ice-cream vendors were given special attention.

Eighty-nine samples of ice-cream were obtained during the year and submitted to the laboratory for examination. 87 were placed in Provisional Grade I, one in Provisional Grade 2 and one in Provisional Grade 3.

SECTION 'G'

ADMINISTRATION OF THE

FACTORIES ACTS, 1937 AND 1948

1. Introduction

The purpose of this study is to investigate the effects of various factors on the performance of a system. The study is organized as follows: Section 2 describes the system and the experimental setup. Section 3 presents the results of the experiments. Section 4 discusses the implications of the results. Section 5 concludes the study.

Factor	Level 1	Level 2	Level 3	Level 4	Level 5
Factor A	1	2	3	4	5
Factor B	1	2	3	4	5
Factor C	1	2	3	4	5
Factor D	1	2	3	4	5
Factor E	1	2	3	4	5
Factor F	1	2	3	4	5
Factor G	1	2	3	4	5
Factor H	1	2	3	4	5
Factor I	1	2	3	4	5
Factor J	1	2	3	4	5

2. System Description

The system under study is a complex system with many components. The system is designed to perform a specific task. The system is composed of several modules. The modules are interconnected and work together to perform the task. The system is tested under various conditions. The results of the tests are presented in the next section.

3. Experimental Results

The results of the experiments are presented in this section. The results show that the system performs well under various conditions. The results also show that the system is robust and can handle a wide range of inputs.

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ADMINISTRATION OF THE FACTORIES ACTS, 1937 AND 1948

There are in the District 91 factories with mechanical power and 6 non-power factories.

The following Tables show the prescribed particulars required to be provided in accordance with Section 128 (3) of the 1937 Act with respect to matters under Part I and Part VIII of the Act which are administered by the Council.

PART I OF THE ACT

1. Inspection for purposes of provisions as to health

	Number on Register	Number of Inspections	Number of Written Notices	Number of occupiers prosecuted
Factories in which Sections 1, 2, 3, 4, and 6 are enforced by local authority.	6	11	-	-
Factories not included above in which Section 7 is enforced by local authority	91	69	-	-
Other premises in which Section 7 is enforced by local authority (excluding outworkers' premises)	14	82	-	-
Totals	111	162	-	-

2. Cases in which defects were found

	Found	Remedied	Referred		Prosecutions
			To H.M. Inspector	By H.M. Inspector	
Want of cleanliness	-	-	-	-	-
Overcrowding	-	-	-	-	-
Unreasonable temperature	-	-	-	-	-
Inadequate ventilation	-	-	-	-	-
Ineffective drainage of floors	-	-	-	-	-
Sanitary conveniences:					
(a) Insufficient	-	-	-	1	-
(b) Unsuitable or defective	1	1	-	-	-
(c) Not separate for sexes	-	-	-	-	-
Other offences (not including offences relating to out-workers)	-	1	-	-	-
Total	1	2	-	1	-

PART VIII OF THE ACT

Number of outworkers' names received during year	12
Number found not to be working at date of inspection	-
Nature of work - Making, etc. of wearing apparel	12
Instances of work in unwholesome premises	-
Number of inspections made of outworkers' premises	25

SECTION 'H'

ADMINISTRATION OF THE
OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963

(A) Registrations and General Inspections

Class of Premises	Number of premises registered during the year.	Number of registered premises at end of year.	Number of premises receiving a general inspection during the year.
Offices	8	73	15
Retail shops	19	255	85
Wholesale Shops, Warehouses	4	14	5
Catering establishments open to the public, canteens	2	29	6
Fuel storage depots	-	3	2
Totals:	33	374	113

Total number of visits of all kinds by Inspectors to registered premises under the Act 418.

(B) Analysis of Contraventions

Section	Number of Contraventions Found	Section	Number of Contraventions Found
4	Cleanliness 12	13	Sitting facilities 1
5	Overcrowding 1	14	Seats (Sedentary Workers) -
6	Temperature 31	15	Eating Facilities 2
7	Ventilation 3	16	Floors, passage & Stairs 11
8	Lighting 15	17	Fencing exposed parts machinery 2
9	Sanitary Conveniences 16	24	First Aid 30
10	Washing facilities 14		General provisions 33
11	Supply of drinking water -		
12	Clothing Accommodation 2		
		Total	173

(C) Exemptions NIL

(D) Prosecutions NIL

Number of complaints made under Section 22 NIL

Number of interim orders granted NIL

(E) Inspectors

1. Number of inspectors appointed under
Section 52(1) or (5) of the Act 4 (whole of
present
establishment)

2. Number of other staff employed for most
of their time on work in connection with the
Act NIL

(F) Reported Accidents 1

I N D E X

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1. *Introduction*

2. *Methodology*

3. *Results and Discussion*

4. *Conclusion*

5. *References*

6. *Appendix*

Table 1		Year
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2. <i>Methodology</i>		1991
3. <i>Results and Discussion</i>		1992
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